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NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF CHEMISTRY

Inspection of Commercial
Feeding Stuff

MADE FOR THE
STATE DEPARTMENT OF AGRICULTURE



BY T. O. SMITH

NEW HAMPSHIRE COLLEGE
OF
AGRICULTURE AND THE MECHANIC ARTS
DURHAM, N. H.

INSPECTION OF COMMERCIAL FEEDING-STUFFS

The Feeding Stuffs Law.

An Act to Regulate the Sale of Concentrated Commercial Feeding Stuffs enacted by the New Hampshire legislature of 1901 and amended by the legislature of 1915 authorizes the Commissioner of Agriculture, Mr. Andrew L. Felker, to direct an annual collection of samples of Commercial Feeding Stuffs offered for sale in the State and to have these samples analyzed at the New Hampshire Agricultural Experiment Station.

A copy of this law follows:-

STATE OF NEW HAMPSHIRE

CHAPTER 35, SESSION LAWS OF 1901, AS AMENDED BY CHAPTER 195, SESSION LAWS OF 1911, AND CHAPTER 174, SESSION LAWS OF 1915.

An Act to Regulate the Sale of Concentrated Commercial Feeding-Stuffs.

SECTION 1. Every manufacturer, company, or person, who shall sell, offer or expose for sale or for distribution in this State any concentrated commercial feeding-stuff used for feeding farm live-stock, shall furnish with each car or other amount shipped in bulk and shall affix to every package of such feeding-stuff, in a conspicuous place on the outside thereof, a plainly printed statement clearly and truly certifying the number of net pounds in the package sold or offered for sale; the name or trademark under which the article is sold, the name of the manufacturer or shipper, the place of manufacture, the place of business, and a chemical analysis stating the minimum percentages only which it contains of crude protein (allowing one per centum of nitrogen to equal six and one-fourth per centum of protein), the minimum percentage only of carbo-hydrates, the minimum percentage only of crude fat, and the maximum percentage only of crude fibre, each constituent to be determined by the methods prescribed by the Association of Official Agricultural Chemists.

And shall state in bold type upon the container or a tag attached thereto, if a compounded feed, the names of the several ingredients therein contained. Whenever any feeding-stuff is sold at retail, in bulk, or in packages belonging to the purchaser, the agent or dealer, upon request of the purchaser, shall furnish to him the certified statement named in this section.

SECT. 2 The term "concentrated commercial feeding-stuffs," as used in this act, shall include linseed meals, cottonseed meals, pea meals, cocoanut meals, gluten meals, gluten feeds, maize feeds, starch feeds, sugar feeds, dried brewer's grains, malt sprouts, hominy feeds, cerealine feeds, rice meals, oat feeds, corn and oat chops, wheat, rye, and buckwheat bran and middlings, ground beef, or fish scraps, mixed feeds and all other materials of similar nature; but shall not include hay, straw, and whole seed, nor the unmixed meals made directly from the entire grains of wheat, rye, barley, oats, Indian corn, broom corn, and buckwheat.

SECT. 3. Before any manufacturer, company or person shall sell or offer for sale in this state any concentrated commercial feeding-stuffs, he or they shall, for each and every feeding-stuff bearing a distinguishing name or trademark, file annually during the month of December with the commissioner of agriculture a certified copy of the statement specified in the preceding sections, said certified copy to be accompanied, when the commissioner shall so request, by a sealed glass jar or bottle containing at least one pound of the feeding-stuff to be sold or offered for sale, and the company or person furnishing said sample shall thereupon make affidavit that said sample corresponds within reasonable limits to the feeding-stuff which it represents in the percentage of protein, carbohydrates, fat and crude fibre which it contains.

SECT. 4. Each manufacturer, importer, agent, or seller of any concentrated commercial feeding-stuffs, shall pay annually during the month of December to the commissioner of agriculture an analysis fee of fifteen dollars for each brand offered for sale within the state. Whenever a manufacturer, importer, agent, or seller of concentrated commercial feeding-stuff desires at any time to sell such material and has not paid the analysis fee therefor in the preceeding month of December, as required by this section, he shall pay the analysis fee prescribed herein before making any such sale. The amount of analysis fees received by said secretary pursuant to the provisions of this section shall be paid by him to the treasurer of the State of New Hampshire. The treasurer of the State of New Hampshire shall pay from such amount when duly approved the moneys required for the expense

incurred in making the inspection required by this act and enforcing the provisions thereof. The commissioner of agriculture shall report annually to the governor and council the amount received pursuant to this act and the expense incurred for salaries, laboratory expenses, chemical supplies, traveling expenses, printing, and other necessary matters. Whenever the manufacturer, importer, or shipper of concentrated commercial feeding-stuffs shall have filed the statement required by Section 1 of this act and paid the analysis fee as prescribed in this section, no agent or seller of such manufacturer, importer, or shipper shall be required to file such statement or pay such fee.

SECT. 5. The commissioner of agriculture shall annually cause to be analyzed at the New Hampshire College Agricultural Experiment Station at least one sample, to be taken in the manner hereinafter prescribed, of every concentrated commercial feeding-stuff sold or offered for sale under the provisions of this act. Said commissioner shall cause a sample to be taken not exceeding two pounds in weight, for such analysis, from any lot or package of such commercial feeding-stuff which may be in the possession of any manufacturer, importer, agent, or seller in this State. Said sample shall be drawn in the presence of the parties in interest, or their representatives, and taken from a parcel or a number of packages, which shall not be less than ten per cent. of the whole lot sampled, and shall be thoroughly mixed, and then divided into two equal samples and placed in glass vials and carefully sealed, and a label placed on each stating the name of the party from whose stock the sample was drawn and the time and place of drawing, and said label shall also be signed by the person taking the sample and by the party or parties in interest, or their representatives, at the drawing and sealing of said samples. One of said duplicate samples shall be retained by the commissioner and the other by the party whose stock was sampled, and the sample or samples retained by the commissioner shall be for comparison with the certified statement named in section 3 of this act. The result of the analysis of the sample or samples so procured, together with such additional information as circumstances advise, shall be promptly published in reports or bulletins by the commissioner of agriculture or by the New Hampshire College Agricultural Experiment Station, as the governor and council may determine.

SECT. 6. Any manufacturer, importer, or person who shall sell, offer, or expose for sale or for distribution in this state any concentrated commercial feeding-stuff, without complying with the requirements of this act, or any feeding-stuff which contains substantially a smaller percentage of the constituents than are certified to be contained, shall, on conviction in a court of com-

petent jurisdiction, be fined not more than one hundred dollars for the first offense, and not more than two hundred dollars for each subsequent offense.

SECT. 7. Any person who shall adulterate any kind of meal or ground grain with milling or manufacturing offals, or any other substance whatever, for the purpose of sale, unless the true composition, mixture, or adulteration thereof is plainly marked or indicated upon the package containing the same or in which it is offered for sale; or any person who knowingly sells, or offers for sale, any meal or ground grain which has been so adulterated unless the true composition, mixture, or adulteration is plainly marked or indicated upon the package containing the same, or in which it is offered for sale, shall be fined not less than twenty-five or more than one hundred dollars for each offense.

SECT. 8. Whenever said commissioner becomes cognizant of the violation of any of the provisions of this act he shall prosecute the party or parties thus reported, but it shall be the duty of said commissioner, upon thus ascertaining any violation of this act to forthwith notify the manufacturer, importer, or dealer in writing, and give him not less than thirty days thereafter in which to comply with the requirements of this law; but there shall be no prosecution in relation to the quality of any concentrated commercial feeding-stuff if the same shall be found substantially equivalent to the certified statement named in section three of this article.

SECT. 9. This act shall take effect upon its passage.

Objects of the Law.

The principal objects of this law are:-

1. To protect the purchasers of feeding stuffs against the adulterated, misbranded, and inferior feeds of the unscrupulous manufacturer.
2. To protect the honest manufacturer and seller of good quality feeding stuffs against the unfair competition of the dishonest manufacturer and seller of inferior feeds.
3. To furnish purchasers with information which will enable them to distinguish between good quality and poor quality feeding stuffs, between reliable and unreliable manufacturers, agents and dealers, and to promote the intelligent and economical purchase and use of feeds.

The Sliding-Scale or Double Guarantee.

There is one provision of this law still being violated by a few manufacturers which can no longer be tolerated; namely,

the use of the double or sliding-scale guarantee. The law definitely states that the minimum percentage only of protein, fat and carbohydrates shall be printed in the guarantee. When a manufacturer prints a guarantee, for example, of 35-50% protein—a spread of 15%—knowing that this particular brand will probably fall below the minimum guarantee of 35% in as many samples as it will analyze as much as three per cent above 35%, he is attempting to deceive the consumer by making it appear that he may get 50% protein where he has hardly a chance of getting more than 38% and may not even get 35%. The purpose of the law requiring the minimum guarantee only is to prevent such deception; and the sale of any feed as represented to contain more than its minimum guarantee is fraudulent and illegal.

The Misleading Brand Name.

Another deception of a few manufacturers, particularly the manufacturers of proprietary or compounded feeds which the consumer is warned to guard against is the misleading brand name of the feed. In buying feeds the purchaser should consider the percentage of protein, the percentage of fat and the percentage of total carbohydrates, less the percentage of crude fiber, in connection with the price of the feed per ton or per hundred pounds. An examination of the brand names and the analyses in the following pages will show several attempts at deception by the manufacturer by giving to a feed low in protein and fat a name indicating that it has unusual feeding value.

The Inspector, Mr. Eugene D. Sanborn, visited nearly every town in the State and collected samples of 306 different brands. These samples were analyzed with the assistance of Mr. P. Bruce Place. The following classification, alphabetically arranged, is the one under which the respective feeds were offered for sale by the dealers.

Alfalfa Meals.

Two samples of alfalfa meal were analyzed. These feeds average to contain 15.34% protein, 1.81% fat, and to retail at \$2.46 per one hundred pounds. One hundred per cent of these feeds equalled or exceeded the manufacturer's guarantee in both protein and fat.

Barley Feeds.

Seven samples of barley feeds were analyzed. These feeds averaged to contain 10.30% protein, 2.77% fat, and to retail at \$2.80 per one hundred pounds. Eighty-six per cent of these feeds equalled or exceeded the manufacturer's guarantee in both protein and fat.

Beet Pulps.

Three samples of beet pulps were analyzed. These feeds averaged to contain 8.66% protein, 0.35% fat, and to retail at \$2.81 per one hundred pounds. One hundred per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and thirty-three per cent his fat guarantee.

Calf Meals.

Four samples of calf meals were analyzed. These feeds averaged to contain 24.85% protein, 5.99% fat, and to retail at \$5.22 one hundred pounds. Fifty per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and seventy-five per cent his fat guarantee.

Compounded Feeds.

Forty-five samples of compounded feeds were analyzed. These feeds averaged to contain 10.85% protein, 4.41% fat, and to retail at \$3.07 per one hundred pounds. Sixty-six per cent of these feeds equalled or exceeded the manufacturer's guarantee in both protein and fat.

Cottonseed Meals.

Twenty-three samples of cottonseed meals were analyzed. These feeds averaged to contain 33.14% protein, 6.17% fat, and retail at \$3.37 per one hundred pounds. Sixty-five per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and ninety-six per cent his fat guarantee.

Dairy Feeds.

Twenty-five samples of dairy feeds were analyzed. These feeds averaged to contain 22.13% protein, 5.43% fat, and to retail at \$3.37 per one hundred pounds. Sixty-five per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and ninety-two per cent his fat guarantee.

Distillers' Grains.

Two samples of distillers' grains were analyzed. These feeds averaged to contain 15.94% protein, 6.08% fat, and to retail at \$2.80 per one hundred pounds. Fifty per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and one hundred per cent his fat guarantee.

Flaxseed Meals.

Eight samples of flaxseed meals were analyzed. These feeds averaged to contain 34.52% protein, 6.91% fat, and to retail at \$3.35 per hundred pounds. One hundred per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and eighty-eight per cent his fat guarantee.

Gluten Feeds.

Eight samples of gluten feeds were analyzed. These feeds averaged to contain 23.90% protein, 3.39% fat, and to retail at \$3.31 per one hundred pounds. Twelve per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and eighty-eight per cent his fat guarantee. The fact that so large a per cent of this year's gluten feeds failed to meet the manufacturer's guarantee is doubtless due to the inferior quality of the 1917 corn crop.

Hominy Feeds.

Nine samples of hominy feeds were analyzed. These feeds averaged to contain 10.19% protein, 5.84% fat, and to retail at \$3.22 per one hundred pounds. Eighty-nine per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and seventy-eight per cent his fat guarantee.

Molasses Feeds.

Ten samples of molasses feeds were analyzed. These feeds averaged to contain 13.49% protein, 4.77% fat, and to retail at \$3.00 per one hundred pounds. Ninety per cent of these feeds equalled or exceeded the manufacturer's guarantee both of protein and fat.

Peanut Feeds.

Three samples of peanut feeds were analyzed. These feeds averaged to contain 30.76% protein, 7.42% fat, and to retail at \$3.15 per one hundred pounds. Thirty-three per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and one hundred per cent of his fat guarantee.

Poultry Feeds.

Thirty-nine samples of poultry feeds were analyzed. These feeds averaged to contain 22.70% protein, 6.36% fat, and to

retail at \$4.72 per one hundred pounds. Forty-nine per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and 95 per cent his fat guarantee.

Rye Feeds.

Five samples of rye feeds were analyzed. These feeds averaged to contain 15.59% protein, 3.52% fat, and to retail at \$2.90 per one hundred pounds. Eighty per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and one hundred per cent his fat guarantee.

Wheat Feeds.

One hundred and five samples of wheat feeds were analyzed. These feeds averaged to contain 15.88% protein, 4.68% fat and to retail at \$2.84 per one hundred pounds. Eighty-eight per cent of these feeds equalled or exceeded the manufacturer's protein guarantee and ninety-three per cent his fat guarantee.

Analyses of Commercial Feeding Stuffs.

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
ALFALFA MEALS							
"Otto Weiss Alfalfa Meal"	Guar. 12.00	1.00	35.00			35.00	Ground alfalfa hay.
D. Otto Weiss Milling Co.,	Found 14.59	1.31	64.47	10.83	8.80		
Wichita, Kansas.							
"Red Star Brand Alfalfa Meal"	Guar. 16.00	1.40					Pure alfalfa hay.
Somers & Company,	Found 16.10	2.32	62.11	9.17	10.30	29.50	
San Francisco, Cal.							
BARLEY FEEDS							
"Barley Feed"	Guar. 5.00	1.50					With ground screenings not exceeding mill run.
Crescent Milling Company,	Found 5.74	1.59	74.99	7.18	10.50	25.00	
Fairfax, Minn.							
"Barley Middlings"	Guar. 6.00	1.00					Barley bran, shorts and flour middlings, with ground screenings not exceeding mill run.
International Milling Co.,	Found 11.43	2.83	69.33	6.51	9.90	28.00	
New Prague, Minn.							
"De-Pend-On Barley Feed"	Guar. 6.00	1.00	50.00				Ground barley screenings not exceeding mill run, barley hulls, barley bran, barley middlings.
International Milling Co.,	Found 11.26	2.53	70.54	6.37	9.30	28.00	
New Prague, Minn.							
"Pillsbury's Barley Mill Feed"	Guar. 8.00	2.00	50.00				Bran, shorts, low grade flour and pulverized screenings.
Pillsbury Flour Mills Co.,	Found 10.91	3.18	69.52	5.99	10.40	20.00	
Minneapolis, Minn.							
"Criterion Barley Feed"	Guar. 8.00	3.00	70.50				
Sheffield-King Milling Co.,	Found 7.97	2.82	71.21	6.50	11.50	22.00	
Minneapolis, Minn.							
"Barley Middlings"	Guar. 10.00	2.00	60.00				
Washburn-Crosby Company,	Found 13.10	4.02	68.40	3.58	10.90	15.00	
Minneapolis, Minn.							

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Ground Whole Barley"	Guar. 10.00	2.00					
Washburn Mills,	Found 11.69	2.46	69.92	3.53	12.40	10.00	
Minneapolis, Minn.							
BEEF PULPS							
"Dried Beet Pulp"	Guar. 8.00	0.50	60.00				
Max Hollett Co.,	Found 8.28	0.25	75.70	2.87	12.90	20.00	
Milwaukee, Wis.							
"Dried Beet Pulp"	Guar. 8.00	0.50	58.00	2.50		20.00	Composed only of sugar beets dried after extraction of sugar.
Larowe Milling Co.,	Found 8.81	0.50	76.54	2.85	11.30	18.45	
Saginaw, Mich.							
"Dried Beet Pulp"	Guar. 8.00	0.50	58.00			20.00	
Owosso Sugar Company,	Found 8.89	0.32	76.14	5.95	8.70		
Owosso, Mich.							
CALF MEALS							
"Blatchford Calf Meal"	Guar. 24.00	5.00	53.00			6.75	Locust bran meal, unpressed flaxseed, wheat flour, blood flour, barley and malt sprout meal, ground beans and peas, rice polish, old process oil meal, cocoa shell meal, coconut meal, reblended cottonseed meal, fenugreek, dried milk, anise and salt.
Blatchford Calf Meal Factory,	Found 24.17	7.04	50.93	6.36	11.50	5.57	
Waukegan, Ill.							
"Purina Calf Chow"	Guar. 33.00	4.00	48.00			3.50	Blood flour, linseed meal, hominy feed, and wheat flour.
Purina Mills,	Found 32.31	4.23	48.15	4.01	11.30	3.09	
St. Louis, Mo.							
"Schumacher Calf Meal"	Guar. 18.00	8.00	54.00			4.00	Oat meal, wheat meal, ground flaxseed, milk albumen and $\frac{1}{2}$ of 1 per cent salt, bicarbonate of soda, old process oil meal, blood meal.
Quaker Oats Company,	Found 18.26	8.06	61.12	3.66	8.90	2.32	
Chicago, Ill.							

"Ryde's Cream Calf Meal" Ryde's & Company, Chicago, Ill.	Guar.	25.00	5.00	54.05	5.16	11.50	6.00	Ground flaxseed, wheat flour, locust bean meal, re-cleaned cottonseed meal, blood flour, beans and lentils, cocoashell meal, hominy feed, fenuugreek, anise and salt.
	Found	24.66	4.63				6.40	
COMPOUNDED FEEDS								
"Acme Farm Feed" Acme-Evans Company, Indianapolis, Ind.	Guar.	12.00	5.00	64.05	6.06	12.90	7.00	Wheat middlings, wheat bran, hominy feed, ground shelled corn.
	Found	12.84	4.15				5.96	
"Acme Stock Feed" Acme-Evans Company, Indianapolis, Ind.	Guar.	9.00	3.50	60.00	5.88	10.60	10.00	Corn, wheat bran, wheat middlings, hominy meal, oat feed, oat hulls, oat middlings and salt.
	Found	7.79	2.96	72.77			14.11	
"Portage Stock Feed" Akron Feed & Milling Co., Akron, Ohio.	Guar.	8.50	4.00	71.54	5.27	9.90	10.00	Either white or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and salt.
	Found	7.93	5.36				13.77	
"Amco Stock Feed" American Milling Company, Peoria, Ill.	Guar.	10.00	3.50	50.00	5.64	9.30	9.00	Corn germ meal, corn feed meal, hominy meal, corn gluten feed, oat shorts, oat middlings, oat hulls and salt.
	Found	13.28	5.49	66.29			10.59	
"Ohio Farm Feed" Ansted & Burk Company, Springfield, Ohio.	Guar.	11.50	4.50	59.00	4.26	11.20	8.50	One-half wheat middlings, one-third corn bran, corn meal, balance wheat bran and ground cleaned wheat screenings not exceeding mill run.
	Found	12.04	4.70	67.80			6.79	
"Armour's Stock Feed" Armour Grain Company, Chicago, Ill.	Guar.	10.00	3.50	72.57	3.95	7.10	10.00	Ground corn, hominy feed, wheat middling, ground barley, oat meal, by-products, oat shorts, oat middlings, oat hulls, cotton seed meal, ½ to 1 per cent salt.
	Found	11.08	5.30				8.90	
"Armour's Stock Feed" Armour Grain Company, Chicago, Ill.	Guar.	12.00	4.00	50.00	4.35	9.30	12.00	Ground corn, hominy feed, wheat middlings, ground barley, oat middlings, oat hulls, oat meal, mill by-products, oil meal, ½ to 1 per cent salt.
	Found	12.31	4.39	69.65			11.05	
"Pennant Brand Stock Feed" E. H. Bailey & Co., Swanton, Vt.	Guar.	12.00	8.00	72.04	4.23	9.50	10.00	Fine white hominy oat by-products, oat middlings, oat hulls, oat shorts, ⅓ to 1 per cent salt.
	Found	8.54	5.69				10.00	

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Bufecco Horse Feed" Buffalo Cereal Company, Buffalo, N. Y.	Guar. 10.00 Found 10.82	4.00 4.34	60.00 73.03	3.81	8.00	11.00 10.45	Ground corn, oat and barley, wheat middlings, hominy feed, oat shorts, oat middlings, oat hulls, linseed meal, corn gluten feed.
"Bufecco Steam Cooked Feed" Buffalo Cereal Company, Buffalo, N. Y.	Guar. 9.00 Found 9.77	4.00 4.84	64.00 71.08	4.81	9.5	9.00 8.63	Ground corn and oats, hominy feed, oat shorts, oat middlings, oat hulls, $\frac{1}{2}$ to 1 per cent of salt.
"Bufecco Stock Feed" Buffalo Cereal Company, Buffalo, N. Y.	Guar. 10.00 Found 10.07	4.00 4.54	60.00 73.15	4.44	7.80	13.00 10.77	Ground corn, oats and barley, wheat middlings, corn gluten feed, hominy feed, oat shorts, oat middlings, oat hulls, salt.
"Clover Leaf Stock Feed" Clover Leaf Milling Co., Buffalo, N. Y.	Guar. 10.00 Found 11.84	4.00 5.03	70.34	5.09	7.70	15.00 13.69	Ground oats, hominy feed, corn feed meal, oat meal, mill by-product, oat middlings, oat shorts, oat hulls, wheat bran with screenings not exceeding mill run, linseed meal and pure Old Process coconut meal.
"Cowee's Stock Feed" E. A. Cowee Company, Worcester, Mass.	Guar. 9.00 Found 8.81	4.00 4.96	72.27	4.36	9.60	10.00 11.58	Ground oats, ground hominy meal, ground corn, ground barley, oat meal, mill by-products, oat middlings, oat shorts, oat hulls, $\frac{1}{2}$ to 1 per cent salt.
"Charlestock Feed" Charles N. Cox Company, Boston, Mass.	Guar. 6.00 Found 7.70	3.00 4.24	74.19	5.07	8.80	16.00 16.54	Oat feed, oatmeal by products, oat shorts, oat middlings, oat hulls, hominy or corn meal, salt.
"Wirthmore Stock Feed" Charles N. Cox Company, Boston, Mass.	Guar. 9.00 Found 9.98	4.00 5.89	60.00 72.53	3.40	8.20	9.50 8.07	Ground barley, ground oats, ground hominy meal, ground corn, oatmeal, mill by-products, oat middlings, oat shorts, oat hulls, $\frac{1}{2}$ of one per cent salt.

"Nu-Life Stock Feed" Fred L. Cressey, Boston, Mass.	Guar. Found	9.00 8.81	4.00 3.05	70.30	5.84	12.00 7.67	White corn meal, oat feed, oil meal, salt.
"W. H. C. Pig Feed" Cunningham Grain Co., Malden, Mass.	Guar. Found	17.00 14.50	5.00 5.48	62.34	6.88	8.00 5.92	Middlings, gluten, alfalfa meal, peanut feed, grain cleanings, cocoanut meal, corn, linseed and hominy meals, Red Dog and tankage.
"Cushing Stock Feed" J. Cushing & Co., Fitchburg, Mass.	Guar. Found	9.00 9.94	4.00 3.81	63.00 71.73	4.32	10.00 7.71	Ground oats, corn meal, wheat, middlings, oat feed, hominy feed.
"Rival Hog Feed" Albert Dickinson Company, Chicago, Ill.	Guar. Found	12.50 14.06	3.00 4.18	50.00 67.12	4.84	12.50 7.61	Linseed oil meal, ground corn bran, corn feed meal, alfalfa meal, corn screenings, wheat, oats, barley, Kafir corn and salt.
"Grandin's Stock Feed" D. H. Grandin Milling Co., Jamestown, N. Y.	Guar. Found	9.00 8.89	5.00 3.54	55.00 74.39	3.58	14.00 9.34	Corn feed meal, oat middlings, oat shorts, oat hulls, wheat middlings, bran, corn gluten feed, barley feed.
"Pioneer Stock Feed" Hales & Edwards Company, Chicago, Ill.	Guar. Found	10.00 11.98	2.50 3.25	50.00 70.91	3.56	9.00 8.97	Ground corn, ground oats, hominy feed oat hulls, oat shorts, and salt.
"Haskell's Stock Feed" W. H. Haskell & Co., Toledo, Ohio.	Guar. Found	9.00 8.83	6.00 3.63	61.00 72.22	4.52	9.00 7.41	Wheat middlings, cottonseed meal, oat hulls, oat sprouts, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses, by-products, salt.
"Algrane Milk Feed" H-O Co's. Mills, Buffalo, N. Y.	Guar. Found	14.00 14.11	4.00 3.83	66.77	5.69	15.00 15.63	Ground corn, hominy feed, linseed oil meal, ground oats, oat shorts, oat hulls, molasses, wheat middlings, 1/4 of 1 per cent salt.
"New England Stock Feed" H-O Co's. Mills, Buffalo, N. Y.	Guar. Found	9.00 9.94	4.00 4.18	70.27	5.01	10.00 10.39	Corn feed meal, wheat bran and middlings hominy meal, oat middlings and salt.
"Hopkin's Fancy Stock Feed" E. C. & H. L. Hopkins, Greenfield, N. H.	Guar. Found	8.50 9.24	3.25 3.59	58.00 74.92	4.15	13.00 13.82	

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Hopkin's Fancy Stock Feed" E. C. & H. L. Hopkins, Greenfield, N. H.	Guar. Found 10.00 9.81	4.00 3.12	60.00 72.06	4.71	10.30	13.00 12.23	Corn, corn feed meal, wheat middlings, wheat bran, gluten feed, hominy meal, oat hulls, oat shorts, oat middlings and salt.
"Hopkin's Fancy Stock Feed" E. C. & H. L. Hopkins, Greenfield, N. H.	Guar. Found 8.50 8.67	3.50 3.39	60.00 71.78	5.26	10.90	10.00 11.60	Corn, corn feed meal, wheat bran, and middlings, hominy meal, oat feed, oat hulls, oat middlings and salt.
"Lucky Strike Stock Feed" Illinois Feed Mills, St. Louis, Mo.	Guar. Found 11.00 11.07	3.00 4.41	67.00 68.48	6.24	9.80	15.00 16.63	Hominy feed, wheat middlings, cottonseed meal, ground corn meal from shelled corn, oat middlings, oat hulls, oat shorts, cot- tonseed hull bran, salt.
"Regal Stock Feed" Imperial Grain & Milling Co., Toledo, Ohio.	Guar. Found 8.00 8.59	3.50 4.52	60.00 75.44	3.65	7.80	13.00 10.36	Shelled and ear corn, oat middlings, oat hulls, oat shorts, cottonseed meal, salt.
"Holstein Feed" Indiana Milling Company, Terre Haute, Ind.	Guar. Found 12.00 11.47	3.00 2.96	69.08	5.69	10.80	16.00 16.99	Wheat bran with ground screenings not exceeding mill run.
"Brook's Fancy Corn & Oats Stock Feed" A. H. McLeod Milling Company, St. Johnsbury, Vt.	Guar. Found 9.50 9.02	3.00 3.17	72.41	4.10	11.30	8.50 13.95	Ground corn, corn bran, ground oats, oat middlings, oat hulls and gluten feed.
"Go To it Hog Ration" Park & Pollard Company, Boston, Mass.	Guar. Found 15.00 18.09	6.00 7.51	30.00 51.88	11.32	11.20	13.00 9.13	Cocanut oil meal, velvet bean meal, pea- nut oil feed, rice bran, old process lin- seed oil meal, alfalfa meal, hominy meal, oat hulls, oat middlings, oat shorts, fish meal, bone corn meal, wheat middlings, salt, calcium carbonate.

"Stock Feed" Park & Pollard Company Boston, Mass.	Guar. Found	9.00 8.63	1.50 3.62	50.00 71.92	6.33	9.50	12.00 13.51	Ground corn, hominy feed, oat hulls, oat middlings, oat shorts.
"Iowa Stock Feed" Purity Oats Company, of Davenport, Davenport, Iowa.	Guar. Found	10.00 11.08	4.00 4.93	70.92	5.77	7.30	12.75 11.70	Wheat middlings, corn meal, hominy feed, brewers' dried grains, oat meal, mill by-products, oat shorts, oat hulls, oat middlings, and 1 per cent salt.
"Schumacher (F. S.) Feed" Quaker Oats Company, Chicago, Ill.	Guar. Found	10.00 12.36	3.25 3.81	52.00 67.94	6.49	9.4	10.00 11.14	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with ground screenings not exceeding mill run, cotton seed meal, ground pulfed rice, ground puffed wheat, oat meal, mill by-products, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1 per cent salt, calcium phosphate, linseed meal.
"Victor Feed" Quaker Oats Company, Chicago, Ill.	Guar. Found	8.00 7.58	3.00 3.01	62.00 74.94	3.87	10.60	12.00 10.53	Ground corn, hominy feed, corn feed meal, by-products from hominy and corn meal by degeneration process with partial extraction of oil, oat meal by-products, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1 per cent salt.
"Purina Pig Chow" Ralston Purina Company, St. Louis, Mo.	Guar. Found	4.00 7.84	3.02 2.83	62.00 68.77	7.00 7.86	12.70	9.00 7.29	Hominy feed, corn feed meal, molasses, alfalfa, digester tankage, charcoal and 1 per cent salt.
"Star Stock Feed" Ralston Purina Company, St. Louis, Mo.	Guar. Found	12.00 12.58	3.00 4.59	61.00 65.95	7.58	9.30	15.00 13.80	Hominy feed, wheat middlings, cottonseed meal, ground corn meal from shelled corn, oat meal, mill by-products and salt.
"Wargrade Mixed Feed" St. Albans Grain Company, St. Albans, Vt.	Guar. Found	13.00 13.54	4.50 3.61	50.00 65.95	4.70	12.20	9.00 7.27	Wheat bran, rye middlings with ground screenings not exceeding mill run and rye graham flour.

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Wirthmore Hog Feed" St. Albans Grain Company, St. Albans, Vt.	Guar. 17.00 Found 18.18	6.00 6.88	55.79	8.35	10.80	7.00	Meat meal, wheat middlings, hominy, corn meal, coconut meal, linseed meal, corn feed meal $\frac{1}{2}$ of 1 per cent salt.
"Wirthmore Pig Feed" St. Albans Grain Company, St. Albans, Vt.	Guar. 18.00 Found 16.69	5.00 5.13	45.00 58.59	8.39	11.20	16.00 13.26	Meat meal, peanut feed, wheat middlings, wheat bran, linseed meal, ground hominy, ground alfalfa, $\frac{1}{2}$ of 1 per cent salt.
"Stratton & Co's. Stock Feed (24)" Stratton & Co., Concord, N. H.	Guar. 8.20 Found 8.32	3.35 3.42	66.00 76.39	3.57	8.30	10.50 13.92	Oat feed, yellow corn meal.
"Camp's Surprise Chop Feed" Toledo Grain & Milling Co., Toledo, Ohio.	Guar. 9.00 Found 9.42	4.00 3.86	73.18	3.94	9.60	9.00 11.98	White or yellow corn, oats, corn meal, mill by-products, oat meal by-products, oat hulls, oat middlings, wheat middlings and $\frac{1}{2}$ of 1 per cent salt.
"Corn Feed Meal" Washburn-Crosby Company, Minneapolis, Minn.	Guar. 8.00 Found 11.78	5.00 8.43	50.00 67.46	2.53	9.80	10.00 7.32	
"Blue Seal Stock Feed" H. K. Webster Company, Lawrence, Mass.	Guar. 12.00 Found 10.24	5.00 4.18	72.95	4.53	8.10	8.00 13.25	Ground oats, kiln dried hominy feed, corn feed meal, wheat feed, linseed meal, pure oat feed, not over $\frac{1}{2}$ of 1 per cent salt.
COTTONSEED MEALS							
"Cotton Meal" Americus Oil Company, Americus, Ga.	Guar. 35.86 Found	6.83	43.89	5.52	7.90		
"Battle Brand Good Cottonseed Feed Meal" W. P. Battle & Co., Memphis, Tenn.	Guar. 36.00 Found 34.38	6.00 6.15	26.00 44.02	5.85	9.60	15.00	

"Jay Brand Cottonseed Feed"	Guar. 36.00	5.00	30.00	14.00	Cottonseed meal and cottonseed hulls.
F. W. Brode & Co.,	Found 34.29	6.74	43.20	9.50	
"Euco Cottonseed Feed"	Guar. 20.00	3.50	38.00	27.00	Cottonseed meal and cottonseed hulls.
Buckeye Cotton Oil Co.,	Found 21.42	4.25	60.04	10.20	
Cincinnati, Ohio.					
"Buckeye Good Cottonseed Meal"	Guar. 36.00	5.00	30.00	14.00	
Buckeye Cotton Oil Co.,	Found 36.05	7.01	43.91	7.00	
Cincinnati, Ohio.					
"Clover Leaf Mills Cottonseed Meal"	Guar. 38.50	6.00	38.33	10.00	Decorticated cottonseed.
Clover Leaf Mills Cottonseed Meal"	Found 38.53	7.64		8.50	
Buffalo, N. Y.					
"St. Clair Brand Cottonseed Meal"	Guar. 36.00	6.00		16.00	
East St. Louis Cotton Oil Co.	Found 34.90	6.11	43.29	9.10	
Chicago, Ill.					
"Gilt-Edge Cottonseed Meal"	Guar. 36.00	5.50	30.00	14.00	Cottonseed Meal
Empire Cotton Oil Co.,	Found 35.78	6.27	44.85	7.50	
Atlanta, Ga.					
"Farmer's Cottonseed Meal"	Guar. 36.00	5.00	30.00	14.00	Cottonseed.
Farmer's Cotton Oil and Trading Co.	Found 39.63	6.87	40.24	7.00	
Uniontown, Ala.					
"77 Cottonseed Feed"	Guar. 20.00	4.00	35.00	28.00	Cottonseed meal and delinted cottonseed hulls.
Humphreys-Godwin Company,	Found 19.31	3.95	63.03	9.60	
Memphis, Tenn.					
"Danish Brand Cottonseed Meal"	Guar. 36.00	5.00	25.00	15.00	Pressed cottonseed
Humphreys-Godwin Company,	Found 37.05	7.23	41.64	8.30	
Memphis, Tenn.					
"Holstein Brand Cottonseed Feed"	Guar. 36.00	5.00	22.00	14.00	Cottonseed meal and cottonseed hulls.
Lanier Bros.,	Found 36.01	6.06	43.47	8.50	
Nashville, Tenn.					
"Economy Cottonseed Feed"	Guar. 36.00	5.00	27.00	14.00	Cottonseed meal and cottonseed hulls.
Lyle & Lyle,	Found 36.61	6.55	40.61	9.70	
Huntsville, Ala.					
"Tip-Top Good Cottonseed Meal"	Guar. 36.00	5.00	20.00	15.00	Decorticated cottonseed.
Meridian Grain & Elevator Co.	Found 35.20	7.35	41.83	9.30	
Meridian, Miss.					
"Globe Brand Cottonseed Feed"	Guar. 20.00	3.50		27.00	Cottonseed meal and hulls.
C. L. Montgomery & Co.,	Found 20.80	3.83	61.28	9.60	
Memphis, Tenn.					

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Star Brand Cottonseed Feed"	Guar. 36.00	6.00	24.00			14.00	Pressed cottonseed.
C. L. Montgomery & Co., Memphis, Tenn.	Found 40.24	7.89	37.04	5.43	9.40		
"Plymouth Cottonseed Feed"	Guar. 20.00	3.00	40.00			27.00	Cottonseed meal, ground cottonseed hulls.
J. E. Soper Company, Boston, Mass.	Found 20.89	3.66	60.66	3.99	10.80	23.66	
"Puritan Cottonseed Meal"	Guar. 36.00	5.00				15.00	
J. E. Soper Company, Boston, Mass.	Found 36.91	6.42	44.58	5.59	6.50		
"Soper's Cottonseed Feed"	Guar. 33.50	7.00	45.00			15.00	
J. E. Soper Company, Boston, Mass.	Found 36.21	7.02	42.90	5.87	8.00		
"Cottonseed Meal"	Guar. 36.00	5.00	25.00			15.00	
St. Albans Grain Company, St. Albans, Vt.	Found 33.71	5.97	44.68	6.14	9.50		Upland cottonseed only.
"Good Cottonseed Meal"	Guar. 36.00	5.50	27.00			14.00	
Taylor Commission Co., Atlanta, Ga.	Found 41.51	7.50	36.50	6.09	8.40		
"Columbia Cotton Feed"	Guar. 20.56	3.00	35.00			25.00	Cottonseed meal and cottonseed hulls.
Union Seed & Fertilizer Co., Montgomery, Ala.	Found 21.33	4.20	58.39	4.48	11.60		
"Surety Brand Cottonseed Meal"	Guar. 36.00	5.50	27.00			14.00	
Union Seed & Fertilizer Co., Montgomery, Ala.	Found 35.64	6.36	44.16	5.34	8.50		
DAIRY FEEDS							
"Armour's Dairy Feed"	Guar. 22.00	5.00	50.00			14.00	Gluten feed, corn germ meal, cottonseed
Armour Grain Company, Chicago, Ill.	Found 23.52	5.49	55.41	7.38	8.20	13.58	meal, coconut oil meal, wheat bran, hominy feed, oat shorts and oat middlings.

"Bufeco Creamery Feed" Buffalo Cereal Company, Buffalo, N. Y.	Guar.	18.00	4.00	59.63	5.89	11.50	12.00	Ground corn, wheat bran, middlings, hominy feed, corn gluten feed, cottonseed meal, oat shorts, oat middlings, oat hulls and salt.
	Found	18.18	4.80				11.02	
"Triangle Dairy Feed" "Chapin & Company," Hammond, Ind.	Guar.	21.00	4.00	50.00	6.03	7.70	12.00	Linseed meal, cottonseed meal, corn gluten feed, corn germ meal, copra meal, (cocoanut oil meal) hominy meal, oat meal, mill by-products, oat meal middlings, oat hulls, oat shorts and salt.
	Found	21.05	4.29	60.93			11.56	
"Unicorn Dairy Ration" "Chapin & Company," Hammond, Ind.	Guar.	26.00	5.50	50.00	6.89	9.50	11.00	Corn, distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-products with corn bran, barley feed, copra meal, cocoanut oil meal, wheat bran, brewers' grains and salt.
	Found	26.01	6.92	50.68			9.21	
"Cloverleaf Dairy Feed" Cloverleaf Milling Company, Buffalo, N. Y.	Guar.	13.50	3.50	50.00	8.84	13.60	15.00	Cottonseed meal, cleaned, ground and bolted grain screenings, cocoa shell meal, ground and bolted clipped oats by-products, molasses and 1/2 of 1 per cent salt.
	Found	13.51	5.22	58.83			16.85	
"Peerless Milk Ration" Cloverleaf Milling Company, Buffalo, N. Y.	Guar.	20.00	5.00	50.00	6.81	10.30	12.00	Cottonseed meal, pure old process cocoanut meal, linseed meal, brewers' dried grains, ground and bolted clipped oats, by-products, cleaned, ground and bolted grain screenings, molasses and salt.
	Found	20.01	5.17	57.71			12.22	
"Dairy Ration" E. A. Cowe Company, Worcester, Mass.	Guar.	22.00	4.00	50.00	3.86	10.70	9.00	Ground oats, bran middlings, linseed meal, gluten feed, cottonseed meal.
	Found	21.28	4.44	59.72			6.82	
"Nu-Life Dairy Feed" Fred L. Cressey, Boston, Mass.	Guar.	22.00	4.00	57.85	7.28	10.90	12.00	Bran, corn feed meal, alfalfa meal, cottonseed meal, gluten, oil meal, peanut meal, small per cent of salt.
	Found	19.79	4.18				13.12	
"Crosby's 1918 Dairy Ration" E. Crosby & Company, Brattleboro, Vt.	Guar.	25.00	6.00	59.00	3.26	8.00	15.00	Distillery dried grains, cottonseed meal, peanut meal, brewers' dried grains, hominy feed and oat feed, oat hulls, oat shorts, oat middlings.
	Found	24.17	8.56	56.01			20.09	

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Crosby's Ready Ration"	Guar. 25.00	7.00	59.00			9.00	Distillery dried grains, cottonseed meal, oil meal, malt sprouts, wheat bran, wheat middlings, hominy feed and ½ of 1 per cent salt.
E. Crosby & Company,	Found 25.31	7.57	51.65	5.67	9.80	9.43	
Brattleboro, Vt.							
"Dickinson's Dairy Feed"	Guar. 24.00	5.50	50.00			11.00	Corn gluten feed, brewer's dried grains, wheat bran, wheat middlings, cottonseed meal, linseed meal, hominy feed ½ of 1 per cent salt.
Albert Dickinson Company,	Found 24.03	5.60	56.61	4.86	8.90	9.67	
Chicago, Ill.							
"Grandin's Milk Maker"	Guar. 22.50	4.00	50.00			13.00	Linseed oil meal, cottonseed meal, gluten feed, distillers' dried grains, brewers' dried grains, hominy feed meal, malt sprouts, wheat bran, wheat middlings and salt.
D. H. Grandin Milling Co.,	Found 22.96	6.61	57.26	4.37	8.80	11.19	
Jamestown, N. Y.							
"Grandin's Twin Six Dairy Feed"	Guar. 22.00	5.00	50.00			13.50	Linseed oil meal, cottonseed meal, coarse gluten feed, rice bran, wheat bran, wheat middlings, alfalfa meal, hominy feed, corn feed meal, wheat bran with palm oil, red dog flour small per cent salt.
D. H. Grandin Milling Co.,	Found 23.39	6.12	55.51	6.18	8.80	12.30	
Jamestown, N. Y.							
"Larrowe's Big (6) Six Dairy Feed"	Guar. 21.00	4.00	48.00			12.00	Linseed oil meal, cottonseed meal, corn gluten feed, wheat bran, hominy feed, wheat middlings, ¾ of 1 per cent salt. Bran and middlings may contain ground screenings not exceeding mill run.
Larrowe Milling Co.,	Found 21.07	5.64	57.27	5.32	10.70	8.31	
Detroit, Mich.							
"Larro Feed"	Guar. 20.00	3.00	50.00			14.00	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings, ¾ of 1 per cent salt.
Larrowe Milling Co.,	Found 20.03	3.58	60.56	3.00	11.30	11.13	
Detroit, Mich.				4.53			

"Bull Brand Dairy Ration" Maritime Trading Corporation, Buffalo, N. Y.	Guar.	24.00	5.00	50.00	6.52	10.60	12.00	Brewers' dried grains, old process oil meal, cottonseed meal, corn gluten feed, hominy feed, coconut meal, wheat bran, wheat middlings, barley middlings, $\frac{3}{4}$ of 1 per cent salt.
	Found	23.12	5.44	54.72			10.54	
"Beauty Dairy Feed" Omaha Alfalfa Milling Co., Omaha, Neb.	Guar.	24.00	3.00	37.00	6.82	9.80	20.00	Oil meal, cottonseed meal, bran, corn meal, alfalfa meal.
	Found	21.42	3.33	58.63			18.25	
"Stevens 44 Dairy Ration" Park & Pollard Company, Boston, Mass.	Guar.	24.00	5.00	53.18	5.73	9.40	14.00	Linseed oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, coconut oil meal, pea meal, corn distiller grains, brewers' dried grains, ground barley, wheat middlings, hominy meal, corn germ meal, buckwheat middlings, corn meal and salt.
	Found	24.34	7.35				11.17	
"Purina Cow Chow Feed" Purina Mills, St. Louis, Mo.	Guar.	24.00	4.80	53.00	6.25	10.30	12.00	Cottonseed meal, linseed oil meal, (old process), gluten feed from corn, hominy feed, ground alfalfa, molasses and 1 per cent salt.
	Found	22.68	4.50	56.27			11.96	
"Big Q Dairy Ration" Quaker Oats Company, Chicago, Ill.	Guar.	21.00	6.00	50.00	5.12	9.50	10.00	Cottonseed meal, corn distillers' grains, corn gluten feed, old process, linseed oil meal, hominy feed, yellow hominy feed, white wheat middlings and wheat bran with ground screenings not exceeding mill run, oat meal by-products, oat middlings, oat hulls.
	Found	20.51	5.33	59.54			10.78	
"Paragon Dairy Feed" St. Albans Grain Company, St. Albans, Vt.	Guar.	22.00	4.00	44.00	6.35	10.10	14.00	Cottonseed meal, linseed meal, bran, distillers' grains, gluten feed, copra meal, barley mill run screenings, oat feed, oat middlings, oat shorts, oat hulls, 1 per cent salt.
	Found	22.33	4.91	56.31			12.46	

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Wirthmore Balanced Ration for Milk Cows" St. Albans Grain Company, St. Albans, Vt.	Guar. 25.00	5.00					Choice cottonseed meal, linseed, gluten feed, distillers' grains, choice malt sprouts, hominy or corn meal, not over $\frac{3}{4}$ of 1 per cent salt.
	Found 22.77	5.16	56.11	5.56	10.40	9.50 10.15	
"Syracuse Milk Ration" Syracuse Milling Company, Syracuse, N. Y.	Guar. 20.00	4.50	43.00				Dried brewers' grains, malt sprouts, corn, linseed meal, wheat bran, mill run screenings, cottonseed meal, ground cottonseed meal and salt.
	Found 22.56	4.79	58.50	5.85	8.30	15.00 14.49	
"Ti-o-ga Dairy Feed (Red Brand)" Tioga Mill & Elevator Co., Waverly, N. J.	Guar. 23.00	3.50					Old process linseed oil meal, corn, dis- tillers' grains, dried brewers' grains, corn gluten feed, corn gluten meal, cottonseed meal, wheat bran, wheat middlings, cane molasses and salt.
	Found 24.92	4.90	55.52	5.36	9.30	11.00 10.95	
"Union Grains, Biles Ready Ration" Ullico Milling Company, Cincinnati, Ohio,	Guar. 24.00	5.00	50.00				Fourex, distillers' dried grains, choice cot- tonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, gluten feed, brewers' dried grains, barley malt sprouts, $\frac{1}{2}$ of 1 per cent salt.
	Found 24.34	5.85	55.35	5.96	8.50	10.00 8.94	
DISTILLERS' GRAINS							
"Corby Dried Grains" Corby Company, Washington, D. C.	Guar. 16.00	5.00					Barley malt, rye malt, malt sprouts, corn.
	Found 15.55	5.09	68.84	2.62	7.90	22.00 18.04	
"Fleischmann's Dried Grains" Fleischmann Company, Chicago, Ill.	Guar. 16.00	7.00					Dried yeast grains from corn, barley malt, oat malt and sprouts.
	Found 16.34	7.97	63.41	3.28	9.00	21.00 22.57	

FLAXSEED MEALS

"Hypro Pure Old Process Linseed Meal" .. American Linseed Company,	Guar. 34.00 Found 36.13	5.00 5.49	40.48	6.20	11.70	8.00
New York City.						
"Old Process Oil Meal"	Guar. 34.00 Found 34.55	5.00 6.14	44.62	5.69	9.00	8.00
American Linseed Company,						
New York City.						
"Pure Old Process Ground Oil Cake"	Guar. 33.00 Found 37.35	6.00 6.41	41.06	5.18	10.00	10.00
Archer-Daniels Linseed Co.,						
Buffalo, N. Y.						
"Linseed Meal"	Guar. 33.00 Found 33.66	8.00 7.07	43.59	5.48	10.20	10.00
Economic Feed Company,						
New York City.						
"Old Process Ground Linseed Cake"	Guar. 32.00 Found 33.85	5.00 7.50	42.31	6.34	10.00	9.50
Midland Linseed Products Co.,						
Minneapolis, Minn.						
"Old Process Ground Linseed Cake" (Argentine Brand)"	Guar. 30.00 Found 32.68	5.50 8.61	43.98	5.53	9.20	9.50
Midland Linseed Products Co.,						
Minneapolis, Minn.						
"Kellogg's Pure Old Process Oil Meal"	Guar. 33.00 Found 34.20	5.00 7.94	41.66	6.30	9.90	10.00
Spencer Kellogg & Sons,						
Buffalo, N. Y.						
"Pure Old Process Oil Meal"	Guar. 33.00 Found 33.76	5.00 6.14	45.31	6.09	8.70	10.00
Spencer Kellogg & Sons,						
Undercliff, N. J.						
"Cream of Corn Gluten Feed"	Guar. 23.00 Found 19.61	1.50 3.45	64.51	2.43	10.00	8.00
American Maize Products Co.,						
New York City.						
"Clinton Corn Gluten Feed"	Guar. 23.00 Found 21.63	3.00 2.33	52.00 60.32	3.12	12.60	8.00
Clinton Sugar Refining Co.,						
Clinton, Iowa.						
"Buffalo Corn Gluten Feed"	Guar. 23.00 Found 22.07	1.00 4.40	60.74	2.99	9.80	8.50
Corn Products Refining Co.,						
New York City.						
"Buffalo Corn Gluten Feed"	Guar. 23.00 Found 22.64	1.00 4.98	57.29	4.39	10.70	8.50
Corn Products Refining Co.,						
New York City.						

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Diamond Corn Gluten Meal"	Guar. 40.00	1.00	38.00			4.00	Corn Gluten meal.
Corn Products Refining Co.,	Found 41.61	1.33	44.08	2.48	10.50		
New York City.							
"Globe Corn Gluten Feed"	Guar. 23.00	1.00		4.54	11.40	8.50	Corn Gluten feed.
Corn Products Refining Co.,	Found 22.82	1.59	59.65				
New York City.							
"Junks' Corn Gluten Feed"	Guar. 25.00	3.00		2.51	7.60	8.00	Corn Starch by-products with corn bran.
Huron Milling Company,	Found 21.01	5.36	63.52				
Harbor Beach, Mich.							
"Staley's Corn Gluten Feed"	Guar. 20.00	2.50	50.00			12.00	Corn bran, corn gluten, corn soluble.
A. E. Staley Mfg. Co.,	Found 19.88	3.73	65.11	1.78	9.50		
Decatur, Ill.							
HOMINY FEEDS							
"Homco Hominy Feed"	Guar. 10.00	6.00				7.00	White corn only.
American Hominy Company,	Found 10.03	6.03	75.53	2.21	6.20		
Indianapolis, Ind.							
"Spring Garden Hominy Feed"	Guar. 10.00	5.00				6.00	Made from corn.
Baltimore Pearl Hominy Co.,	Found 10.03	5.13	71.07	2.87	10.90		
Baltimore, Md.							
"Yellow Hominy Feed"	Guar. 10.00	5.00	65.00			4.00	
Buffalo Cereal Company,	Found 10.16	5.34	72.90	2.50	9.10		
Buffalo, N. Y.							
"Paragon Hominy Meal"	Guar. 9.50	7.50	60.00			7.00	
Chas. N. Cox Company,	Found 10.29	7.54	71.59	2.98	7.60		
Boston, Mass.							
"Badger Hominy Feed"	Guar. 10.00	6.00		2.60	10.20	5.00	White corn.
Chas. A. Krause Milling Co.,	Found 10.03	5.40	71.77				
Milwaukee, Wis.							

"Hominy Feed"	Guar.	10.00	5.00	74.15	2.24	10.30	3.00
Miner-Hilliard Milling Co.,	Found	9.33	3.98				3.27
Wilkes-Barre, Pa.							
"Mystic Hominy Feed"	Guar.	9.50	5.00	70.35	2.28	10.90	4.00
Mystic Milling Company,	Found	10.38	6.09				7.59
Sioux City, Iowa.		10.00	5.00				5.00
"Hominy Feed"	Guar.	11.02	5.82	68.84	3.82	10.50	
Patent Cereals Company,	Found						
Geneva, N. Y.							
"Burt's Hominy Feed"	Guar.	10.00	6.00	67.31	2.78	12.20	5.00
Postum Cereal Company,	Found	10.47	7.24				
Battle Creek, Mich.							
MISCELLANEOUS FEEDS							
"Oat Feed"	Guar.	5.90	2.50				24.00
H. L. Buss Company,	Found	5.71	2.52	74.39	7.28	9.10	23.60
Boston, Mass.							
"Clinton Mixed Feed"	Guar.	15.00	4.00				7.00
Cunningham Grain Company,	Found	15.29	3.87	63.71	4.43	12.70	
Malden, Mass.							
"Wheat Bran with Corn Meal"	Guar.	13.00	4.00				11.00
Cunningham Grain Company,	Found	13.36	4.23	63.42	4.79	14.20	
Malden, Mass.							
"Provender"	Guar.	10.94	3.45	69.59	2.72	13.30	
J. Cushing & Company,	Found						
Fitchburg, Mass.							
"Oat Feed"	Guar.	3.50	1.25				35.00
North Illinois Cereal Co.,	Found	4.61	1.21	82.36	6.82	5.00	33.36
Lockport, Ill.							
"White Corn Mill Feed"	Guar.	10.00	10.00	66.32	3.06	9.10	12.00
Russell-Miller Milling Co.,	Found	10.82	10.70				7.29
Minneapolis, Minn.							
"Jesco" Velvet Bean Feed	Guar.	17.00	4.00	45.00			13.00
J. E. Soper Company,	Found	17.65	4.20	62.16	4.19	11.80	12.96
Boston, Mass.							
"Corn Feed Meal"	Guar.	8.00	5.00	50.00			10.00
Washburn-Crosby Company,	Found	12.08	8.43	67.16	2.53	9.80	
Buffalo, N. Y.							

White corn.

Wheat bran, middlings, rye graham with mill run of screenings.

Wheat bran with screenings not exceeding mill run and corn meal.

Ground oats and corn.

Re-ground oat feed composed of oat hulls and oat shorts.

Ground velvet beans and pods.

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
MOLASSES FEEDS							
"Kick-A-Poo Horse Feed"	Guar. 10.00	3.00	50.00			12.00	Molasses, alfalfa, rolled oats, and salt.
American Milling Company,	Found 10.47	4.01	68.86	4.76	11.90	11.90	
Peoria, Ill.							
"Sucrene Hog Meal"	Guar. 18.00	4.00	45.00			14.00	Corn germ meal, molasses, corn feed meal, peanut oil meal, alfalfa meal, blood flour, palm kernel meal, calcium carbonate and salt.
American Milling Company,	Found 17.13	7.28	56.74	6.95	11.90	5.83	
Peoria, Ill.							
"International Climax Dairy Feed"	Guar. 12.50	4.00	55.00			14.00	Cottonseed meal, molasses, ground clipped oats by-products, salt, cleaned ground grain screenings.
International Sugar Feed Co.,	Found 12.50	5.94	59.20	9.56	12.80	13.63	
Minneapolis, Minn.							
"International Dan Patch Horse Feed"	Guar. 9.00	3.00	65.00			15.00	Oats, cracked corn, ground alfalfa, molasses and salt.
International Sugar Feed Co.,	Found 11.78	2.83	62.44	9.15	13.80	14.68	
Minneapolis, Minn.							
"International Special Dairy Feed"	Guar. 15.00	4.50	58.00			15.00	Cottonseed meal, ground clipped oats, salt, molasses, ground cleaned screenings.
International Sugar Feed Co.,	Found 15.46	5.80	61.28	6.86	10.60	11.29	
Minneapolis, Minn.							
"International Ready Ration"	Guar. 20.00	5.00	45.00			15.00	Cottonseed meal, molasses, ground clean grain screenings, linseed oil meal and bran.
International Sugar Feed Co.,	Found 20.10	5.48	55.28	8.14	11.00	9.43	
Minneapolis, Minn.							
"Purina O-Moline Feed"	Guar. 9.70	3.20	67.00			8.00	Oats, kiln dried clean alfalfa flour, molasses and salt.
Purina Mills,	Found 9.73	5.47	67.83	4.27	12.70	10.53	
St. Louis, Mo.							
"Quaker Dairy Feed with Molasses"	Guar. 16.00	4.50	47.50			16.00	
Quaker Oats Company,	Found 16.69	4.89	57.31	8.21	12.90	12.66	
Chicago, Ill.							

Cottonseed meal, ground grain screenings
oat meal mill by-products, oat middlings,
oat hulls, oat shorts, $\frac{3}{4}$ of 1 per cent,
calcium phosphate, palm kernel oil meal.

Pressed peanut kernels and hulls.

Whole nuts with oil extracted.

Ground pressed peanuts, the entire pea-
nut less the oil extracted.

Corn feed meal, alfalfa meal, meat scraps,
wheat bran, linseed meal, dried butter-
milk, calcium carbonate and salt.

Meat scraps, fish scraps, wheat bran, al-
falfa meal, corn feed meal, cottonseed
meal, cocoa shells, bone meal, oat pro-
ducts, limetone, salt.

"Quaker Dairy Feed with Molasses"	Guar.	16.00	4.50	47.50	8.98	11.40	16.00
Quaker Oats Company,	Found	16.51	4.67	58.44			12.00
Chicago, Ill.							
"Xtra Vim Feed"	Guar.	4.60	0.60				5.00
Xtravim Molasses Feed Co.,	Found	4.61	1.40	70.08	5.91	18.00	6.48
Chicago, Ill.							
PEANUT FEEDS							
"Liberty Brand Peanut Feed"	Guar.	33.00	7.00	40.00			25.00
Humphreys-Godwin Company,	Found	32.75	7.59	46.22	4.14	9.30	
Memphis, Tenn.							
"Pioneer Peanut Meal Feed"	Guar.	31.25	5.50	22.84			29.00
Pioneer Peanut Oil Company,	Found	33.50	8.50	46.28	4.02	7.70	
Abbeville, Ala.							
"Primo Unhulled Peanut Oil Feed"	Guar.	28.00	6.00	40.00			25.00
Suffolk Oil Mill,	Found	26.03	6.17	49.90	7.50	10.40	
Suffolk, Va.							
POULTRY FEEDS							
"Sucrene Poultry Mash"	Guar.	18.00	3.50	50.00			12.00
American Milling Company,	Found	16.69	4.57	59.69	7.55	11.50	7.20
Peoria, Ill.							
"Star Brand Scraps"	Guar.	30.00	8.00				
Andrews & Spelman Company,	Found	32.28	12.28		41.22	7.40	
Providence, R. I.							
"Beach's Meat & Bone Meal, (Star Brand)"	Guar.	30.00	10.00				
Beach Soap Company,	Found	25.83	11.73		55.97	4.60	
Lawrence, Mass.							
"Pure Ground Beef Scraps"	Found	45.00	10.00				
Beach Soap Company,	Found	33.85	12.92		38.57	6.90	
Lawrence, Mass.							
"Blatchford's Laying Mash"	Guar.	20.00	5.00	48.00			8.00
Blatchford's Calif Meal Co.,	Found	20.23	5.65	54.99	10.63	8.50	11.85
Waukegan, Ill.							

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbhy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Blatchford Milk Mash"	Guar. 20.00	4.00	52.00	10.22	10.50	7.50	Blatchford's calf meal, locus bran meal, unpressed flaxseed, wheat flour, blood flour, ground beans and peas, rice polish, old process oil meal, cocoa shell meal, coconut meal, foenugreek, dried milk, anise and salt, bone, corn and oat meal, wheat middlings, beef scraps, fish powdered lime-stone.
Blatchford's Calf Meal Co.,	Found 20.71	4.45	54.12			6.73	
Waukegan, Ill.							
"Breck's Ground Beef Scraps"	Guar. 50.00	15.00		32.09	8.10		Meat scraps.
Joseph Breck & Sons,	Found 37.74	21.98					
Boston, Mass.							
"Bufecoco Laying Mash"	Guar. 20.00	5.00	49.00	6.37	12.30	8.00	Ground corn, oats, wheat, and kafir corn, wheat bran, wheat middlings, linseed meal, alfalfa meal, oat middlings, meat and bone scraps, ½ of 1 per cent salt.
Buffalo Cereal Company,	Found 18.61	6.54	56.18			6.07	
Buffalo, N. Y.							
"Bufecoco Poultry Mash"	Guar. 15.00	4.00	62.00	2.95	10.40	5.00	Ground corn, wheat bran and middlings, hominy feed, corn gluten feed, oat mid-dlings, and rolled oats.
Buffalo Cereal Company,	Found 15.81	5.42	65.42			4.88	
Buffalo, N. Y.							
"Burlington Poultry Feed"	Guar. 35.00	8.00		41.58	6.20		Cooked meat, and bone scraps, animal products.
Burlington Rendering Co.,	Found 32.89	15.21					
Burlington, Vt.							
"Nu-Life Dry Mash"	Guar. 20.00	4.00		10.77	10.80	8.00	Beef scraps, bran, oil meal, corn feed meal, alfalfa meal, gluten, cottonseed meal, wheat middlings, ground oats, salt.
Fred L. Cressey,	Found 16.20	4.59	57.64			10.58	
Boston, Mass.							
"Globe Egg Mash"	Guar. 15.00	3.00	55.00	6.77	9.60	10.00	Wheat bran, wheat middlings, alfalfa meal, ground corn, linseed oil meal, meat scraps, salt ½ of 1 per cent.
Albert Dickinson Co.,	Found 18.88	5.34	59.41			8.09	
Chicago, Ill.							

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohydrates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Egg Mash"	Guar. 15.00	3.00	55.00	7.72	9.70	10.00	Wheat bran, wheat middlings, alfalfa meal, corn bran, corn feed meal, linseed oil cake, meat scraps, salt $\frac{1}{2}$ of 1 per cent.
E. C. & H. L. Hopkins,	Found 19.66	5.28	57.64			7.89	
Greenfield, N. H.							
"Marsh's Pure Ground Poultry Scraps"	Guar. 40.00	10.00		39.59	8.50		Cooked meat and bone scraps.
George E. Marsh Company,	Found 35.78	11.38					
Lynn, Mass.							
"Poultry Mash"	Guar. 11.00	2.50	60.00	6.71	11.60	7.00	Wheat and wheat by-products, corn and corn by-products, gluten feed, alfalfa meal, barley meal, oil meal, beef scraps, a small amount of salt.
McQuesten & Lewis,	Found 22.29	3.70	55.70			8.65	
Manchester, N. H.							
"Manchester Poultry Feed"	Guar. 50.00	12.00		32.97	6.60		Cooked meal and bone scraps, animal products.
Manchester Rendering Co.,	Found 42.52	13.36					
Manchester, N. H.							
"Growing Feed"	Guar. 10.00	1.50	50.00	5.51	12.80	8.00	Ground corn, wheat, barley, oats, meat, bone, alfalfa, kafir corn, wheat bran with mill run of screenings, wheat middlings, buckwheat, beet-pulp, calcium carbonate, salt.
Park & Pollard Company,	Found 11.87	2.69	67.13			4.03	
Roston, Mass.							
"Lay-or-Bust Dry Mash"	Guar. 18.00	1.50	40.00	2.56	11.70	12.00	Ground wheat bran with run of screenings, wheat middlings, corn, wheat, oats, barley, kafir corn, buckwheat, alfalfa, beet pulp, calcium carbonate and salt.
Park & Pollard Company,	Found 13.40	4.47	67.87			7.36	
Boston, Mass.							
"Portland Poultry Food"	Guar. 50.00	10.50		38.41	8.30		Cooked meat and bone scraps, animal products.
Portland Rendering Company,	Found 35.16	12.49					
Portland, Maine.							
"Prairie State Poultry Mash"	Guar. 17.00	3.50	45.00	9.32	10.80	10.00	Corn feed meal, wheat meal, kafir meal, alfalfa meal, linseed meal, wheat bran, wheat middlings, meat scraps, oyster shells.
Prairie State Milling Co.,	Found 13.93	3.64	62.31			5.32	
Chicago, Ill.							

"Prait's Baby Chick Food" Pratt Food Company, Chicago, Ill.	Guar.	11.50	3.50	69.00				3.80	Oat middlings, cooked wheat, wheat middlings, bone meal, shell meal, corn meal, black pepper, rape, millet.
	Found	11.96	3.55	65.27	9.92	9.30		2.81	
"Purina Chicken Chowder" Purina Mills, St. Louis, Mo.	Guar.	18.00	4.00	58.00				9.00	Wheat middlings, wheat bran, corn meal, salt, alfalfa meal, linseed meal.
	Found	17.60	4.72	60.80	6.98	9.90		9.35	
"Tom Boy Poultry Mash" Purity Oats Company, Davenport, Iowa.	Guar.	15.00	4.00	60.81				10.00	Ground meat, wheat, oat meal, wheat middlings, milo maize, buckwheat, corn meal, barley, oat middlings, millet, gluten feed, kafir corn, alfalfa meal, hominy feed, wheat bran, oat germ meal, phosphate salt, calcium carbonate and charcoal.
	Found	16.25	4.46		10.48	8.00		8.99	
"Full-O-Pep Dry Mash" Quaker Oats Company, Chicago, Ill.	Guar.	20.00	4.00	49.00				10.00	Meat scraps, fish meal, oat meal, alfalfa meal, wheat with ground screenings not exceeding mill run, bone meal, cottonseed meal, yellow hominy feed, hominy feed, corn gluten feed, ground grain screenings.
	Found	20.01	5.98	57.10	8.41	8.50		7.05	
"Schumacher Poultry Mash" "Quaker Dairy Feed with Molasses" Chicago, Ill.	Guar.	20.00	4.00	49.00				10.00	Meat scrap, fish meal, wheat bran with ground screenings not exceeding mill run, alfalfa meal, yellow hominy feed, corn feed meal, by-products of hominy and corn meal, corn gluten feed, ground grain screenings, bone meal, cottonseed meal.
	Guar.	18.04	5.59	57.95	8.72	9.70		9.10	
"Chic Chuk Poultry Food" Russia Cement Company, Gloucester, Mass.	Guar.	50.00	2.00						Prepared from wholesome food fish as cod, haddock, and pollock.
	Found	50.53	2.45		40.36	7.00			
"Wirthmore Fish & Scrap Mash Feed" St. Albans Grain Company, St. Albans, Vt.	Guar.	20.00	4.00	50.00				8.50	Ground oats, ground barley, ground corn, gluten feed, hominy bran, wheat middlings, beet pulp, unground crimped oats, choice fine ground beef scraps, fish meal, buckwheat, about $\frac{3}{4}$ of 1 per cent salt.
	Found	21.73	5.17	50.52	13.48	9.10		6.78	

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Wirthmore Growing Feed" St. Albans Grain Company, St. Albans, Vt.	Guar. 15.00 Found 14.76	4.50 5.12	50.00 56.99	11.33	11.80	4.50 6.82	With scraps, ground wheat, corn, oats, barley, peas, milo maize, beet pulp, wheat middlings, salt and choice fine beef scrap.
"Blue Seal Dry Mash" H. K. Webster Company, Lawrence, Mass.	Guar. 20.00 Found 16.43	4.00 5.08	55.00 61.74	8.15	8.60	10.00 8.36	Wheat feed, corn meal, gluten feed, roll- ed oats, beef scraps beet pulp, oil meal, and Hen-e-ta bone, composed of phosphor- ic acid, silica, lime and soda.
"Meat & Bone Poultry Scraps" Whitman & Pratt Rendering Co. Boston, Mass	Guar. 35.00 Found 34.65	12.00 11.28		45.48	7.70		
RYE FEEDS							
"Rye Middlings" Bay State Milling Company, Winona, Minn.	Guar. 16.00 Found 16.60	3.40 3.56	63.00 65.27	4.37	10.20	6.00	
"Boutwell Rye Feed" Boutwell Milling & Grain Co., Troy, N. Y.	Guar. 13.50 Found 15.03	3.00 3.22	64.25	4.80	12.70	6.00	Rye bran, rye middlings and all the screen- ings that may be in rye grain.
"Rye Feed" Duluth-Superior Milling Co., Duluth, Minn.	Guar. 16.50 Found 15.54	3.00 3.68	65.35	5.43	10.00	5.50	
"Rye Middlings" Pillsbury Mills, Minneapolis, Minn.	Guar. 15.50 Found 15.73	3.50 3.54	56.00 65.28	4.55	10.90	9.00	With ground screenings not exceeding mill run.
"Pure Rye Middlings" Washburn-Crosby Company, Minneapolis, Minn.	Guar. 14.00 Found 15.08	3.00 3.62	50.00 67.38	4.32	9.60	5.00	

WHEAT FEEDS

"Mulac Fancy Middlings" Aberdeen Mill Company, Aberdeen, S. D.	Guar. Found	15.60 16.03	4.20 5.60	62.69	5.18	10.50	7.50
"Trojan Bran" Allen & Wheeler Co., Troy, Ohio.	Guar. Found	14.50 15.11	4.00 3.31	52.00 61.59	7.39	12.60	9.50
"Bran" Amsted & Burke Co., Springfield, Ohio.	Guar. Found	13.00 14.41	4.00 3.53	51.00 63.12	7.84	11.10	12.50
"Middlings" Amsted & Burke Co., Springfield, Ohio.	Guar. Found	15.00 14.45	5.00 4.22	58.00 65.25	5.08	11.00	5.50
"Wheat Mixed Feed" Atchison Flour Mills Co., Atchison, Kansas.	Guar. Found	16.00 16.65	3.50 3.75	63.36	5.84	10.40	8.50
"Atlas Flour Middlings" Atlas Flour Mills, Milwaukee, Wis.	Guar. Found	14.50 14.68	3.00 5.01	54.00 62.18	6.43	11.70	8.00
"Bailey Fancy Feed" E. W. Bailey & Co., Montpelier, Vt.	Guar. Found	15.00 14.45	3.75 3.89	49.00 63.50	7.06	11.10	10.00 9.35
"Star Middlings" Barber Milling Company, Minneapolis, Minn.	Guar. Found	14.50 15.46	4.75 4.99	63.00 61.67	7.48	10.40	11.00
"Day State Coarse Bran" Bay State Milling Company, Winona, Minn.	Guar. Found	15.00 14.71	3.50 4.48	63.80 61.34	6.07	13.40	12.00
"Winona Coarse Wheat Bran" Bay State Milling Company, Winona, Minn.	Guar. Found	15.00 14.01	3.50 4.37	63.00 62.29	7.13	12.20	12.00
"Big Diamond Middlings" Big Diamond Mills Co., Minneapolis, Minn.	Guar. Found	15.50 15.64	5.00 5.95	63.42	5.19	9.80	10.00
"Wheat Bran" Black Brothers, Beatrice, Neb.	Guar. Found	14.75 15.81	3.50 3.94	61.65	7.20	11.40	10.00

Pure wheat.

Wheat bran with ground screenings not exceeding mill run.

Wheat middlings with ground screenings not exceeding mill run.

Mill run and screenings.

Soft winter wheat.

Wheat with ground screenings not exceeding mill run.

Free from screenings.

Guaranteed free from screenings.

Wheat standard middlings with ground screenings not exceeding mill run.

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Blish's Bulls Eye Mixed Feed"	Guar. 16.00	4.40					
Blish Milling Company,	Found 16.51	4.10	61.61	7.08	10.70	9.10	Pure bran and middlings from country run wheat.
"Onward Middlings"	Guar. 16.50	5.00	62.00				
A. H. Brown & Bros.,	Found 16.52	6.12	61.94	4.22	11.20	8.30	With ground screenings from wheat not exceeding mill run.
Boston, Mass.							
"Wheat Bran and Screenings"	Guar. 14.00	3.00					
The Butte & White Swan Mills,	Found 15.46	3.62	60.55	7.07	13.30	14.00	
Kansas City, Neb.							
"Purity Middlings"	Guar. 15.00	4.00					
Capital Milling Company,	Found 15.20	4.28	65.47	4.95	10.10	7.00	Winter wheat.
Columbus, Ohio.							
"Jersey Wheat Bran"	Guar. 13.00	4.00					
Century Milling Company,	Found 14.15	4.92	62.41	6.32	12.20	13.00	With ground screenings not exceeding mill run.
Minneapolis, Minn.							
"Poland Wheat Standard Middlings,	Guar. 14.00	4.00					
Century Milling Company,	Found 16.69	5.75	62.56	5.00	10.00	11.00	With ground screenings not exceeding mill run.
Minneapolis, Minn.							
"Crosby's Mixed Feed"	Guar. 16.00	4.50					
E. Crosby & Co.,	Found 16.69	3.77	63.10	4.84	11.60	9.00	Selected Bran, Standard Middlings, Red Dog.
Brattleboro, Vt.							
"Middlings"	Guar. 16.00	4.00					
Cunningham Grain Company,	Found 16.03	4.11	65.51	4.85	9.50	7.00	Wheat middlings and rye middlings with mill run of screenings.
Malden, Mass.							
"Bryan Middlings"	Guar. 15.90	5.39	58.95	6.26	13.50		
J. Cushing Company,	Found						
Fitchburg, Mass.							
"Boston Mixed Feed"	Guar. 16.00	4.50					
Duluth-Superior Milling Co.,	Found 16.11	5.35	61.88	5.46	11.20	9.00	Wheat bran and middlings, low-grade flour with ground screenings.
Duluth, Minn.							

"Duluth Imperial Wheat Bran"	Guar. 14.50	3.75	61.77	6.12	11.60	11.00	Wheat bran, with ground screenings not exceeding mill run.
Duluth-Superior Milling Co., Duluth, Minn.	Found 15.11	5.40					
"Red Dog Middlings"	Guar. 16.50	4.25	65.36	2.91	9.50	3.10	
Duluth-Superior Milling Co., Duluth, Minn.	Found 16.95	5.28					With ground screenings not exceeding mill run.
"Standard Middlings"	Guar. 16.50	4.70	61.21	5.63	11.30	8.10	
Duluth-Superior Milling Co., Duluth, Minn.	Found 16.60	5.26					Wheat with ground screenings not exceeding mill run.
"Middlings"	Guar. 14.00	4.00	53.00	6.37	10.10	11.00	
Eagle Roller Mills Co., New Ulm, Minn.	Found 14.02	4.74	64.77	6.37	10.10		With ground screenings not exceeding mill run.
"Middlings"	Guar. 15.00	4.00	63.12	5.47	9.60	9.00	
Empire Milling Company, Minneapolis, Minn.	Found 16.20	5.61					With ground screenings not exceeding mill run.
"E. A. Company Wheat Bran"	Guar. 14.00	3.00	60.42	6.97	13.90	12.00	
Everett Aughenbaugh, Waseca, Minn.	Found 14.19	4.52					With ground screenings not exceeding mill run.
"Dairy Maid Middlings"	Guar. 13.50	2.25	53.00	4.35	11.00	8.50	
Federal Milling Company, Lockport, N. Y.	Found 15.81	5.22	63.62				Spring wheat with ground screenings not exceeding mill run.
"Lucky Bran"	Guar. 13.00	3.50	51.00	7.47	12.40	14.00	
Federal Milling Company, Lockport, N. Y.	Found 16.43	3.52	60.18				Pure wheat with ground screenings not exceeding mill run.
"Lucky Flour Middlings"	Guar. 14.00	3.50	52.00	5.39	10.80	10.00	
Federal Milling Company, Lockport, N. Y.	Found 17.74	4.96	61.11				Spring wheat with ground screenings not exceeding mill run.
"Lucky Mixed Feed"	Guar. 14.00	3.00	52.00	6.55	11.80	11.00	
Federal Milling Company, Lockport, N. Y.	Found 17.39	4.26	40.00				With screenings not exceeding mill run.
"Gwinn's Bran"	Guar. 13.00	4.00	65.91	6.33	9.70	13.50	
Gwinn Milling Company, Columbus, Ohio.	Found 14.94	3.12					Wheat bran and middlings with screenings not exceeding mill run.
"Gwinn's Dairy Feed"	Guar. 15.00	4.00	60.35	6.35	10.90	9.00	
Gwinn Milling Company, Columbus, Ohio.	Found 17.43	4.97					
"Gwinn's Middlings with Screenings"	Guar. 15.00	4.00	63.99	4.39	10.40	10.00	
Gwinn Milling Company, Columbus, Ohio.	Found 16.69	4.53					

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Choice Wheat Bran"	Guar. 14.00	3.00	53.00	7.23	12.50	12.50	With trace of screenings.
Hecker-Jones-Jewell Milling Co., Buffalo, N. Y.	Found 14.85	4.45	60.97				
"Red Dog"	Guar. 16.25	5.00	54.75	4.62	9.30	6.00	Pure Wheat.
Hecker-Jones-Jewell Milling Co., Buffalo, N. Y.	Found 19.05	6.17	60.86				
Standard Middlings"	Guar. 16.00	4.75	53.50	5.99	11.20	10.00	Mill run of screenings.
Hecker-Jones-Jewell Milling Co., Buffalo, N. Y.	Found 16.60	5.71	60.50				
"Highland Mixed Feed"	Guar. 15.00	4.00	54.00	7.06	6.30	9.00	Wheat bran and middlings run together.
Highland Milling Company,	Found 15.81	4.38	66.45				
Highland, Ill.							
"Kehlor's Mill Feed"	Guar. 15.00	4.00	55.00	6.14	11.80	8.00	Pure wheat bran and middlings run to- gether with ground screenings not exceed- ing mill run.
Kehlor Flour Mills Co.,	Found 18.00	4.49	59.57				
St. Louis, Mo.							
"Wheat Mixed Feed"	Guar. 16.00	4.00	53.00	5.23	11.80	8.50	Wheat bran, wheat shorts, mill run screenings not to exceed 8 per cent.
Larabee Flour Mills Corporation,	Found 15.85	5.00	62.12				
Kansas City, Mo.							
"Golden Bull Brand"	Guar. 15.50	2.00	59.66	6.93	12.90	11.50	Pure wheat product.
Lawrenceburg Roller Mills Co.,	Found 16.86	3.65					
Lawrenceburg, Ind.							
"Elmco Middlings"	Guar. 17.00	4.40	60.78	6.24	11.50	12.40	
Listman Mills Company,	Found 16.38	5.10					
LaCrosse, Wis.							
"Wheat Bran with Ground Screenings"	Guar. 14.00	4.25	52.00	7.03	11.80	10.50	
Mancy Milling Company,	Found 15.03	4.25	61.89				
Omaha, Neb.							
"Prooks' Fancy Mixed Feed"	Guar. 16.00	4.00	50.00	6.38	11.70	8.00	
A. H. McLeod Milling Co.,	Found 16.03	4.01	61.88				
St. Johnsbury, Vt.							

"Middlings"	Guar	14.00	4.00	62.51	4.83	11.60	7.00	Pure spring wheat.
Millbourne Mills, Philadelphia, Pa.	Found	16.60	4.46					
"Montico Bran"	Guar.	13.80	3.70	61.62	6.33	12.8	13.90	Wheat bran with ground screenings not exceeding mill run.
Montana Flour Mills Co., Great Falls, Mont.	Found	14.68	4.57					
"Montico Wheat Middlings"	Guar.	15.75	4.70	64.98	5.35	9.10	9.60	With ground screenings not exceeding mill run.
Montana Flour Mills Co., Great Falls, Mont.	Found	15.76	4.81					
"Scal of Minnesota Wheat Bran"	Guar.	13.00	3.00	63.78	6.44	12.00	15.50	With ground screenings not exceeding mill run.
New Prague Flouring Mill Co., New Prague, Minn.	Found	13.71	4.07					
"Bran"	Guar	12.00	3.00	63.39	5.90	11.20	13.00	Choice Wheat.
Niagara Falls Milling Co., Niagara Falls, N. Y.	Found	14.68	4.83					
XXX "Comet Middlings"	Guar.	16.50	4.00	60.00			3.00	Pure wheat products, red dog wheat flour.
Northwestern Milling Co., Minneapolis, Minn.	Found	17.74	6.88	59.94	3.74	11.70		
"Pure Wheat Bran"	Guar.	14.00	4.00	50.00			11.00	
Northwestern Consolidated Milling Co., Minneapolis, Minn.	Found	14.68	4.08	61.74	7.10	12.40		
"Standard Middlings"	Guar.	15.00	4.50	53.00			11.00	With ground screenings not exceeding mill run.
Northwestern Consolidated Milling Co., Minneapolis, Minn.	Found	15.38	5.72	62.10	5.80	11.00		
"Wheat Flour Middlings"	Guar.	15.50	4.50	57.00			5.00	With ground screenings not exceeding mill run.
Northwestern Consolidated Milling Co., Minneapolis, Minn.	Found	17.04	5.26	61.12	5.98	10.60		
"Wheat Middlings (N)"	Guar.	14.50	4.00	50.00			11.00	
Northwestern Consolidated Milling Co., Minneapolis, Minn.	Found	16.56	5.78	61.33	5.63	10.70		
"Omar' Pure Wheat Bran"	Guar.	14.50	3.50	50.00			11.00	Pure Wheat bran.
Omaha Flour Mills Co., Omaha, Neb.	Found	16.86	3.56	59.68	7.60	12.30		
"Omar' Wheat Shorts"	Guar.	15.00	3.50	52.00			8.00	Mill run of wheat, shorts and ground wheat screenings not exceeding 8 per cent.
Omaha Flour Mills Co., Omaha, Neb.	Found	18.70	4.79	61.89	5.22	9.40		

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbhy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Mixed Feed" Ottawa Milling Company, Ottawa, Kan.	Guar. 16.00 Found 17.21	3.50 3.65	49.00 60.41	5.53	13.20	9.00	
"Pillsbury's XX Daisy Pure Wheat Middlings"	Guar. 16.00 Found 18.26	4.00 5.31	60.00 60.82	5.71	9.90	4.00	Pure wheat.
Pillsbury Milling Co., Minneapolis, Minn.	Guar. 13.00 Found 14.94	4.00 4.67	50.00 63.13	6.16	11.10	13.00	Wheat bran with ground screenings.
"Pillsbury's Wheat Bran"	Guar. 14.00 Found 15.81	4.00 5.21	52.00 62.49	5.09	11.40	11.00	Wheat middlings with ground screenings not exceeding mill run.
Pillsbury Milling Co., Minneapolis, Minn.	Guar. 15.09 Found 14.15	3.00 3.24	58.00 62.48	6.43	11.40	11.00	With screenings not exceeding mill run.
"Wheat Bran (P)"	Guar. 13.00 Found 14.06	3.00 3.12	50.00 63.06	6.76	13.00	10.50	Winter wheat.
Geo. P. Plant Milling Co., St. Louis, Mo.	Guar. 14.00 Found 15.55	4.00 5.39	59.00 63.19	5.27	10.60	5.00	Pure wheat.
"Quaker City Bran"	Guar. 16.00 Found 17.04	3.50 5.00	53.75 60.69	5.57	11.70	8.00	Wheat bran, flour middlings and ground screenings not exceeding mill run.
Quaker City Flour Mills Co., Philadelphia, Pa.	Guar. 15.50 Found 15.60	3.00 3.72	52.50 62.76	5.72	12.20	9.00	With ground screenings not exceeding mill run.
"Quaker City Middlings"	Guar. 15.00 Found 17.13	4.00 4.36	55.00 57.11	7.00	14.40	10.00	Wheat bran, flour middlings, and ground screenings not exceeding mill run.
Quaker City Flour Mills Co., Philadelphia, Pa.							
"Royal Mixed Feed"							
Royal Milling Company, Great Falls, Mont.							
"Royal Wheat Bran"							
Royal Milling Company, Great Falls, Mont.							
"Royal Wheat Mixed Feed"							
Royal Milling Company, Great Falls, Mont.							

	Guar.	Found	4.50	54.00	4.75	9.80	10.00	Wheat only.
"Wheat Occident Feed" Russell-Miller Milling Co., Minneapolis, Minn.	Guar.	Found	15.00 17.13	4.50 6.04	54.00 62.28	4.75 9.80	10.00	
"Bran" Scott Logan Milling Co., Sheldon, Iowa.	Guar.	Found	13.00 14.41	4.00 4.07	61.16	7.66	7.00	
"Sheldon Shorts" Scott Logan Milling Co., Sheldon, Iowa.	Guar.	Found	14.00 16.43	4.00 5.09	56.89	8.29	7.00	
"Wheat Standard Middlings" Shane Bros. & Wilson Co., Minneapolis, Minn.	Guar.	Found	15.50 15.55	5.30 5.87	50.00 62.35	4.93	10.30	With ground screenings not exceeding mill run.
"Wirthmore Middlings" St. Albans Grain Company, St. Albans, Vt.	Guar.	Found	14.50 15.20	4.00 4.35	50.00 65.37	5.18	8.00	Wheat middlings, Red Dog flour, less than mill run of screenings.
"Wirthmore Wheat Feed" St. Albans Grain Company, St. Albans, Vt.	Guar.	Found	15.00 15.00	4.50 4.66	50.00 64.62	5.22	8.00	Wheat Bran, Red Dog flour, less than mill run of screenings.
"Mixed Feed" Standard-Tilton Milling Co., St. Louis, Mo.	Guar.	Found	14.50 17.74	4.00 4.51	55.00 56.85	6.60	8.00	Bran and middlings with screening not exceeding mill run.
"Star Wheat Bran" Star & Crescent Milling Co., Chicago, Ill.	Guar.	Found	15.00 14.84	4.00 4.04	60.84	7.18	10.00	With ground screenings not exceeding mill run.
"Monarch Fancy Wheat Feed" F. W. Stock & Sons, Hillsdale, Mich.	Guar.	Found	16.00 16.34	4.00 4.39	50.00 60.97	7.00	10.00	With mill run screenings.
"Bran" David Stott, Flour Mills, Inc., Detroit, Mich.	Guar.	Found	14.00 14.19	4.00 4.54	60.92 61.04	5.83	12.00	Spring wheat, wheat screenings, wheat bran with ground wheat screenings.
"Stott's Honest Mixed Feed" David Stott, Flour Mills, Inc., Detroit, Mich.	Guar.	Found	15.00 14.24	4.00 4.03	62.39 63.47	5.26	8.00	Pure winter wheat, wheat bran, wheat middlings.
"Komo Wheat Standard Middlings" St. Paul Milling Co., St. Paul, Minn.	Guar.	Found	15.00 15.11	4.50 5.73	52.00 60.24	6.12	10.50	With ground screenings not exceeding mill run.

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Stratton & Co.'s Mixed Feed" Stratton & Co., Concord, N. H.	Guar. 15.87 Found 15.33	4.92 4.32	62.15	5.80	12.40	9.12	Screenings not exceeding mill run.
"Angelus Fancy Flour Middlings" Thompson Milling Company, Lockport, N. Y.	Guar. 13.00 Found 16.86	4.00 4.07	63.47	3.60	12.00	14.00	With ground screenings not exceeding mill run.
"Angelus Wheat Bran" Thompson Milling Company, Lockport, N. Y.	Guar. 13.00 Found 15.55	4.00 4.04	59.94	7.37	13.10	14.00	With ground screenings not exceeding mill run.
"Angelus Wheat Middlings" Thompson Milling Company, Lockport, N. Y.	Guar. 13.00 Found 17.56	4.00 4.83	58.90	6.31	12.40	14.00	With ground screenings not exceeding mill run.
"Angelus Wheat Mixed Feed" Thompson Milling Company, Lockport, N. Y.	Guar. 13.00 Found 15.99	4.00 4.18	59.97	5.96	13.90	14.00	With ground screenings not exceeding mill run.
"T. & C. Mixed Feed" Thornton & Chester Milling Co., Buffalo, N. Y.	Guar. 14.00 Found 15.55	4.50 5.97	50.00 62.08	6.00	10.40	11.00	Wheat bran and middlings with ground screenings not exceeding mill run.
"Rowena Wheat Middlings" Valley City Milling Co., Grand Rapids, Mich.	Guar. 15.50 Found 15.99	4.50 4.60	63.09	5.12	10.90	9.00	Ground screenings not exceeding mill run.
"Victor Bran" Victor Milling Company, Victor, N. Y.	Guar. 14.60 Found 12.96	4.00 4.21	63.02	7.01	12.80	15.00	With ground screenings not exceeding mill run.
"Victor Middlings" Victor Milling Company, Victor, N. Y.	Guar. 17.50 Found 17.51	5.00 5.15	48.00 60.84	5.60	10.90	10.00	With ground screenings not exceeding mill run.
"Victor Spring Wheat Mixed Feed" Victor Milling Company, Victor, N. Y.	Guar. 15.00 Found 16.60	4.50 4.78	53.31 60.70	6.72	11.20	10.00	With ground screenings not exceeding mill run.

"Crescent Bran"	Guar. 14.00	3.50	62.06	6.48	12.60	11.00	Soft winter wheat, with ground screenings not exceeding mill run.
Voigt Milling Company, Grand Rapids, Mich.	Found 14.85	4.01					
"Crescent Middlings"	Guar. 14.50	3.50	60.72	6.17	12.40	10.00	Soft winter wheat with ground screenings not exceeding mill run.
Voigt Milling Company, Grand Rapids, Mich.	Found 15.90	4.81					
"Voigt's Pure Winter Wheat Cow Feed" ..	Guar. 14.50	3.50	63.94	5.91	12.00	10.00	Soft winter wheat with ground screenings not exceeding mill run.
Voigt Milling Company, Grand Rapids, Mich.	Found 14.51	3.64					
"Mill Run Bran Mixed Feed"	Guar. 15.00	4.00	50.00	6.49	11.50	10.00	Bran, middlings, ship stuff from winter wheat.
Wagoner-Gates Milling Co., Independence, Mo.	Found 17.56	4.20	60.25				
"Washburn Crosby' Co's. Wheat Bran" ..	Guar. 13.00	4.00	50.00			13.00	Wheat bran with ground screenings not exceeding mill run.
Washburn-Crosby Company, Minneapolis, Minn.	Found 14.94	4.49	63.38	6.89	10.30		
"Arlington Flour (Red Dog)"	Guar. 14.00	4.00	60.00			4.00	
Washburn-Crosby Company, Minneapolis, Minn.	Found 18.88	4.09	50.35	6.88	10.88		
"Adrian Red Dog Flour"	Guar. 16.00	4.00	60.00			4.00	Pure hard wheat.
Washburn Crosby Company, Minneapolis, Minn.	Found 16.78	4.74	66.19	2.99	9.30		
"Washburn Crosby Wheat Standard" Middlings"	Guar. 14.00	4.00	52.00			11.00	With ground screenings not exceeding mill run.
Washburn Crosby Company, Minneapolis, Minn.	Found 18.46	6.25	61.25	4.94	9.10	6.88	
"Wheat Bran"	Guar. 13.00	5.40	67.03	4.45	10.30	16.00	With ground screenings not exceeding mill run.
Webster Mill Company, Webster, S. D.	Found 12.75	5.47					
"Mixed Feed"	Guar. 15.30	4.80	65.25	4.85	9.50	10.40	With ground screenings not exceeding mill run.
Webster Mill Company, Webster, S. D.	Found 14.98	5.42					
"Star Winter Wheat Bran and Screenings" ..	Guar. 15.00	3.50	50.00	7.16	10.90	11.00	
Western Star Mill Company, Salina, Kansas.	Found 15.95	3.87	62.12				
"Bran"	Guar. 14.50	3.50	62.24	7.00	10.00	11.00	Wheat bran and screenings not to exceed 8 per cent screenings.
Wilson Flour Mills, Wilson, Kansas.	Found 17.13	3.63					

Brand Name and Name and Address of Manufacturer.	Protein	Fat	Carbohy- drates	Ash	Moisture	Crude Fiber	Certified by manufacturer to contain
"Wheat Bran"	Guar. 15.00	3.50					
Wilson Flour Mills,	Found 16.95	3.69	61.07	6.29	12.00	11.00	Wheat bran and screenings not to exceed 8 per cent screenings.
Wilson, Kansas.							
White Middlings"	Guar. 16.50	4.50					
Wisconsin Milling Company,	Found 16.64	5.36	62.20	5.00	10.80	6.00	
Menominee, Wis.							
"Middlings"	Guar. 15.00	4.50					
E. S. Woodworth & Co.,	Found 15.06	5.60	61.23	5.51	12.60	10.00	
Minneapolis, Minn.							
"Golden Durum Wheat Flour Middlings" ..	Guar. 15.50	5.50	55.00				
Yerxa, Andrews & Thurston,	Found 16.43	5.61	62.50	3.86	11.60	6.50	
Minneapolis, Minn.							
"Nokomos Durum Wheat Bran"	Guar. 12.00	5.50	50.00				
Yerxa, Andrews & Thurston,	Found 15.03	5.78	63.16	4.93	11.10	13.00	
Minneapolis, Minn.							

